

Question	Answer	Mark	Level
1 a	Switched off the radio in her room <i>or</i> caught the bus instead of letting her dad drive her	1	3
b	If less energy is used, then less fuel is burned to generate the energy needed, therefore our fuel reserves will last much longer <i>and/or</i> less pollution is released into the atmosphere.	1	4
2 a	Bran cereal	1	3
b	Crisps	1	4
c	The results will be inaccurate because the bulb of the thermometer is not in contact with the water.	1	3
3 a	<i>Two from:</i> crisps; crackers; chocolate; pasta	2	4
b	Bread sticks	1	4
c	The Sun	1	6
4 a	They are renewable. They don't produce pollution.	1 1	5 5
b	<i>Two from:</i> they are unreliable as they depend on the weather; they may not be available in the places where energy is needed; they do not produce as much energy as fossil fuel; they often take up a lot of space	2	5
c	The oil was made from living things which got their energy from the Sun. We burn the oil to release the energy from it.	1 1	6 6
5 a	Thermal energy, solar furnace, electrical energy Kinetic energy, wind turbine, electrical energy Kinetic energy, water turbine, electrical energy Kinetic energy, wave turbine, electrical energy	1 1 1 1	4 4 4 4
b	Gravitational energy	1	5
6 a i	David's	1	4
ii	The temperature sensor records temperature continuously <i>or</i> more accurately <i>or</i> automatically.	1	4
b	As a bar graph	1	4
c	Repeat the experiment and take an average.	1	5
d	Results are recorded automatically <i>or</i> he can alter the time interval between readings. <i>Accept suitable alternatives that do not repeat the answer to a ii.</i>	1	5

Scores in the range of:	NC Level
5–9	3
10–14	4
15–18	5
19–25	6